
Press information

Sneek, May 2008

Lankhorst develop new design plastic arched bridge

Lankhorst Recycling Products in Sneek (Holland) has developed and produced a new KLP® plastic bridge. This unique bridge has a free span of 8,5 meter and is made out of recycled plastics. The first two bridges were assembled in the production facility in Sneek. The first bridges are to be delivered to contractor Oosterhuis and will be placed in the town of Meppel (Holland). The arched bridges are meant to be used by pedestrians and bicycles.

New design

The complete new concept of the bridge has been designed in-house at Lankhorst. Founded on the base of the unique characteristics of the steel-reinforced plastic beams the construction has been thoroughly developed by the Lankhorst Research and Development department. Before, the limit of free-span was 5 meters maximum. On base of the calculations for the demands of the bridge, the span has increased to 8,5 with this new design. The bridge can deal with a load bearing capacity of 500 kilo per square meter. The bridge is meant to be used as a bicycle and pedestrian bridge, but can be used for incidental vehicles such as ambulances or fire worker trucks.

Prefab construction

It is the first time Lankhorst supplies a plastic bridge in a prefab construction (fully assembled). All separate parts will be put together in Sneek and this way an all-ready bridge will exist. An advantage of this is, that it will decrease assembly costs onsite.

This bridge has a modern and lean posture, is 3 meters wide and weighs about 3000 kilograms.

The light weight is an advantage for the under construction. Besides this, it is also an advantage for the transport and handling during placement. The bridge is made out of black plastic KLP® (the brand name of the material) and KLP®-S (steel-reinforced) and white KLP®. Recycled plastics are durable, with a long lifespan of 50 years. The material is maintenance free and does not splinter. So with KLP® one does not need a maintenance budget. KLP® is twice as nonslipping as wood, even in rainy weather conditions. This was tested with a so-called Leroux- test and was drawn up in a Dutch NEN- norm.

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Characteristics Arched Bridge

Span:	Free span of 8,5 meter (possible maximum 12 meter!)
Weight:	Per bridge about 3000 kilograms
Material:	Recycled plastic KLP and KLP-S
Load bearing capacity:	5kN/m ²
Production:	Completely prefab, ready to use
Design:	Lankhorst Recycling Products, Holland

Lankhorst Recycling Products bv

Lankhorst is a pioneer in recycled plastic and has a 30 year track record of manufacturing high quality products from recycled plastic waste. Knowledge of materials and manufacturing processes are crucial in an industry where safety and environmental sensitivity are so important. Lankhorst has extensive knowledge of the characteristics of its raw materials and its emphasis on quality guarantees an end product that will exceed expectations.

For more information visit www.lankhorst-recycling.com

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